

Title (en)
COUNTER-FIELD WINDING IN ELECTRICAL GENERATOR

Title (de)
GEGENFELDWICKLUNG IN ELEKTRISCHEM GENERATOR

Title (fr)
ENROULEMENT À CONTRECHAMP DANS UN GÉNÉRATEUR ÉLECTRIQUE

Publication
EP 3480937 B1 20211208 (EN)

Application
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Abstract (en)
[origin: US10177698B1] A main field circuit of an electrical generator and associated system and method are disclosed. The main field circuit comprises a main field winding configured to conduct a main field current, and a counter-field winding arranged proximate to the main field winding. The main field circuit further comprises a switch element configured to selectively couple at least a portion of the main field current into the counter-field winding to reduce a magnitude of the main field current. Coupling at least a portion of the main field current into the counter-field winding may be performed responsive to one or predefined conditions, such as a predefined load fault condition and enabling a predefined field weakening operation.

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